

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 035763/0107	SERIAL NO. 09/508,379
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Avraham A. LEVY et al.	
		FILING DATE March 10, 2000	
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U.S. PATENT DOCUMENTS





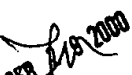
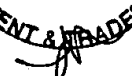









EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	TECH CENTER SUB-CLASS	FILING DATE IF APPROPRIATE
JN	B1	4,732,856	3/22/88	Federoff	435	172.3	
JN	B2	5,013,658	5/7/91	Dooner et al.	435	172.3	
JN	B3	5,149,645	9/22/92	Hoekema et al.	435	172.3	
JN	B4	5,225,341	7/6/93	Yoder et al.	435	172.3	
JN	B5	5,482,852	1/9/96	Yoder et al.	435	172.3	
JN	B6	5,749,169	5/12/98	Briggs	47	58	

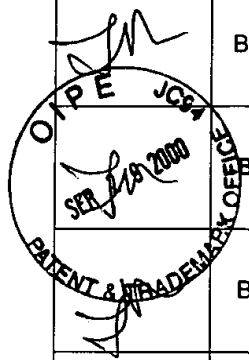
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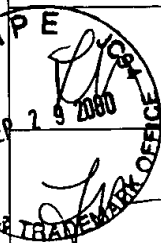



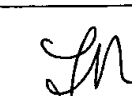
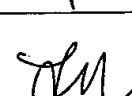
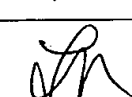
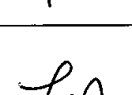
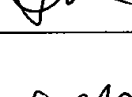
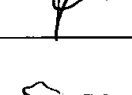
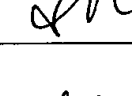
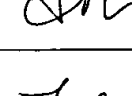
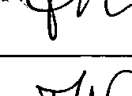
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JN	B8	WO 92/01370	2/6/92	PCT	A01H	5/00	—	—
JN	B9	EP 0 436 007	7/26/90	EPO	C12N	15/82	—	—
JN	B10	0 563 527 A1	10/6/93	EPO	C12N	15/77	—	—
JN	B11	0 289 947	11/9/88	EPO	C12N	15/00	—	—

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JN	B12	ALLEN et al., "The Use of the Polymerase Chain Reaction and the Detection of Amplified Products", <i>Methods in Molecular Biology</i> 15: 113-128, (1993)
JN	B13	ALTMANN et al., "Establishment of a Gene Tagging System in <i>Arabidopsis thaliana</i> based on the Maize Transposable Element Ac", <i>Theor. Appl. Genet.</i> 84: 371-383 (1992)
JN	B14	AUSUBEL et al., (Eds.) "Current Protocols in Molecular Biology", 2.10.2-3 and 3.5.9-10
JN	B15	BALLINGER et al., "Targeted Gene Mutations in <i>Drosophila</i> ", <i>Proc. Natl. Acad. Sci.</i> 86: 9402-9406 (1989)
JN	B16	BECHTOLD et al., "In Planta <i>Agrobacterium</i> Mediated Gene Transfer by Infiltration of Adult <i>Arabidopsis thaliana</i> Plants", <i>C. R. Acad. Sci. Paris, Sciences de la Vie/Life Sciences</i> 316: 1194-1199 (1993)
JN	B17	BEECKMAN et al., "An Easy Technique for the Clearing of Histochemically Stained Plain Tissue", <i>Plant Mol. Biol. Tep.</i> 12: 37-42 (1994)

	B18	BENSON <i>et al.</i> , "Cloning and Characterization of the Maize <i>An1</i> Gene", <i>The Plant Cell</i> 7: 75-84 (1995)
	B19	CARROLL <i>et al.</i> , "Germinal Transposition of the Maize Element Dissociation from T-DNA Loci in Tomato" <i>Genetics</i> 139: 407-420 (1995)
	B20	COOLEY <i>et al.</i> , "Site-selected Insertional Mutagenesis of Tomato with Maize <i>Ac</i> and <i>Ds</i> Elements" <i>Mol. Gen. Genet.</i> 252: 184-194 (1996)
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	B26	FEINBERG <i>et al.</i> , "A Technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity", <i>Anal. Biochem.</i> 132: 6-13 (1983)
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	B29	GREENBLATT, "A Chromosome Replication Pattern Deduced From Pericarp Phenotypes Resulting from Movements of the Transposable Element, Modulator, In Maize", <i>Genetics</i> 108: 471-485 (1984)
	B30	HEDDEN <i>et al.</i> , "Gibberellin Biosyntheses: Enzymes, Genes and Their Regulation", <i>Ann. Rev. Plant Physiol. Plant Mol. Biol.</i> 48: 431-460
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	B32	HORSCH <i>et al.</i> , "A General and Simple Method for Transferring Genes into Plants", <i>Science</i> 227: 1229-1231 (1985)



	B33	JEFFERSON, "Assay of Chimeric Genes in Plants: The GUS Gene Fusion System", <i>Plant Mol. Biol. Rep.</i> 5, 387-405 (1987)
	B34	JONES <i>et al.</i> , "Isolation of the Tomato Cf-9 Gene for Resistance to <i>Cladosporium fulvum</i> by Transposon Tagging", <i>Science</i> 266: 789-792 (1994)
	B35	JONES <i>et al.</i> , "Preferential Transposition of the Maize Element Activator to Linked Chromosomal Location in Tobacco", <i>The Plant Cell</i> 2: 701-707 (1990)
 	B36	KAISER <i>et al.</i> , " 'Site-selected' Transposon Mutagenesis of Drosophila", <i>Proc. Natl. Acad. Sci.</i> 87: 1686-1690 (1990)
	B37	KEDDIE <i>et al.</i> , "The DCL Gene of Tomato is Required for Chloroplast Development and Palisade Cell Morphogenesis in Leaves", <i>EMBO J.</i> 15: 4208-4217 (1996)
	B38	KNAPP <i>et al.</i> , "Transgenic Tomato Lines Containing Ds Elements as Defined Genomic Positions as Tools for Targeted Transposon Tagging", <i>Mol. Gen. Genet.</i> 243: 666-673
	B39	LEUTWILER <i>et al.</i> , "The DNA of <i>Arabidopsis Thaliana</i> ", <i>Mol. Gen. Genet.</i> 194: 15-23 (1984)
	B40	MALMBERG, "Production and Analysis of Plant Mutants, Emphasizing <i>Arabidopsis Thaliana</i>", <i>Methods in Plant Molecular Biology and Biotechnology</i>, CRC Press (Boca Raton) 11-28 (1993)
	B41	MENA <i>et al.</i> , "Diversification of C-Function Activity in Maize Flower Development", <i>Science</i> 274:1537-1540 (1996)
	B42	OSBORNE <i>et al.</i> , "Ac Transposition from a T-DNA Can Generate Linked and Unlinked Clusters of Insertions in Tomato Genome", <i>Genetics</i> 129: 833-44 (1991)
	B43	POEHLMAN, <i>Breeding Field Crops</i> (1987) Van Nostrand Reinhold, New York (3rd edition)
	B44	Rick <i>et al.</i> , "Classical and Molecular Genetics of Tomato: Highlights and Perspectives", <i>Ann. Rev. Genet.</i> 22: 281-300 (1988)
	B45	ROMMENS <i>et al.</i> , "Characterization of the Ac/Ds Behavior in Transgenic Tomato Plants Using Plasmid Rescue", <i>Plant Mol. Biol.</i> 20: 61-70 (1992)
	B46	RYCHLIK <i>et al.</i>, "Selection of Primers for Polymerase Chain Reaction", <i>Methods in Molecular Biology 15: PCR Protocols: Current Methods and Applications</i>, B. A. White (Ed.) Human Press, Totowa, NJ pp 1-29 and 31-40
	B47	SCHOENMAKERS <i>et al.</i> , "Isolation and Characterization of Nitrate Reductase-Deficient Mutants in Tomato (<i>Lycopersicon esculentum</i> Mill.)", <i>Mol. Gen. Genet.</i> 227: 458-64 (1991)

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	B49	SCOTT et al., "Micro-Tom—a Miniature Dwarf Tomato", <i>Florida Agr. Expt. Sta. Circ.</i> 370:1-6 (1989)	✓
	B50	SCOTT et al., "Adjacent Sequences Influence DNA Repair Accompanying Transposon Excision in Maize", <i>Genetics</i> 142: 237-246 (1996)	✓
	B51	SHALEV et al., "The Maize Transposable Element Ac Induces Recombination Between the Donor Site and an Homologous Ectopic Sequence", <i>Genetics</i> 146: 1143-1151 (1997)	✓
	B52	SUNDARESAN, "Horizontal Spread of Transposon Mutagenesis: New Uses for Old Elements", <i>Trends in Plant Science</i> 1: 184-190 (1996)	✓
	B53	SUNDARESAN et al., "Patterns of Gene Action in Plant Development Revealed by Enhancer Trap and Gene Trap Transposable Elements", <i>Genes & Dev.</i> 9: 1797-1810 (1995)	✓
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	B58	WISMAN et al., "Genetic and Molecular Characterization of Adh-I null Mutant in Tomato", <i>Mol. Gen. Genet.</i> 226: 120-128 (1991)	✓
	B59	YODER et al., "Ac Transposition in Transgenic Tomato Plants", <i>Mol. Gen. Genet.</i> 213: 291-296 (1988)	✓
	B60	ZWAAL, et al., "Target-Selected Gene Inactivation in <i>Caenorhabditis Elegans</i> by Using a Frozen Transposon Insertion Mutant Bank", <i>Proc. Natl. Acad. Sci.</i> 90: 7431-7435 (1993)	✓
	B61	MEETING REPORT, "A Meeting of the Minds on Maize", <i>The Plant Cell</i> 920-925 (1994)	✓

EXAMINER

DATE CONSIDERED

11/31/2002

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Avraham A. LEVY et al.			
				FILING DATE 3/10/2000		GROUP ART UNIT 1638 <u>Unassigned</u>	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	A1	5,565,347	10/96	FILLATTI et al.	435	172.3	
FOREIGN PATENT DOCUMENTS							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A2	MEISSNER et al., "A New Model System For Tomato Genetics", <i>The Plant Journal</i> , Vol. 12(6):1465-1472, (1997) ✓					
	A3	DATABASE CAB INTERNATIONAL WALLINGFORD, OXON, GB, Scott, J.W., "Micro-Tom. A Miniature Dwarf Tomato", (1989), No. S-370, page 6, Abstract ✓					
	A4	J. W. SCOTT et al., "Micro-Gold' Miniature Dwarf Tomato", <i>HortScience</i> , Vol. 30(3):643-644, (1995) ✓					
	A5	BISHOP et al., "The Tomato Dwarf Gene Isolated By Heterologous Transposon Tagging Encodes The First Member Of A New Cytochrome P450 Family", <i>The Plant Cell</i> , Vol. 8, pp. 959-969, (1996) ✓					
	A6	DATABASE CAB INTERNATIONAL, WALLINGFORD, OXON, GB, Dax, E. et al., "A Random Amplified 163, Polymorphic DNA (RAPD) Molecular Marker For The Tm-2a Gene In Tomato", (1994), Vol. 74, No. 1/2, pp. 159-abstract ✓					
	A7	DATABASE BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, Zeerak, N. et al., "Induced Dwarf Mutants In Tomato", (1994), Vol. 23, No. 4, pp. 209-213, Abstract ✓					
	A8	DATABASE BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, Yakovleva, I, "Genetic Study Of Tomato Mutants With Variable Cell Turgor", (1975), Vol. 11, No. 2, pp. 47-54, abstract ✓					
	A9	KNAPP et al., "Transgenic Tomato Lines Containing Ds Elements At Defined Genomic Positions As Tools For Targeted Transposon Tagging", <i>Mol. Gen. Genet.</i> , Vol. 243, pp. 666-673, (1994)- ✓					
	A10	GOLDSBROUGH et al., "Transposition Mediated Re-Positioning And Subsequent Elimination Of Marker Genes From Transgenic Tomato", <i>Bio/technology</i> , Vol. 11, pp. 1286-1291, (1993) ✓					
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	B1	R.J. Bensen et al., "Cloning and Characterization of the Maize An1 Gene", The Plant Cell, 7:75-84, 1995.						
	B2	B.J. Carroll et al., "Germinal Transpositions of the Maize Element Dissociation from T-DNA Loci in Tomato", Genetics 139, pp.407-420, 1994.						
	B3	M.B. Cooley et al., "Site-selected insertional mutagenesis of tomato with maize Ac and Ds elements", Mol. Gen. Genet 252, pp.184-194, 1996.						
	B4	N.V. Fedoroff et al., "A versatile system for detecting transposition in Arabidopsis", Plant J. 3, pp.273-289, 1993.						
	B5	C.M.T. Rommens et al., "Characterization of the Ac/Ds behaviour in transgenic tomato plants using plasmid Rescue", Plant Mol. Biol. 20, pp.61-70, 1992.						
	B6	H.C.H. Schoenmakers et al., "Isolation and characterization of nitrate reductase-deficient mutants tomato (Lycopersicon esculentum Mill.)", Mol. Gen. Genet. 227, pp.458-464, 1991.						
	B7	V. Sundaresan et al., "Pattern of gene action in plant development revealed by enhancer trap and gene trap Transposable elements", Genes Dev. 9, pp.1797-1810, 1995.						
	B8	C.M. Thomas et al., "Analysis of the chromosomal distribution of transposon-carrying T-DNAs in tomato using The inverse polymerase chain reaction", Mol. Gen. Genet 242, pp.573-585, 1994						
	B9	E. Wisman et al., "Genetic and molecular characterization of an Adh-1 null mutant in tomato", Mol. Gen. Genet. 226, pp.120-128, 1991.						
	B10	J. Yoder et al., "Ac transposition in transgenic tomato plants", Mol. Gen. Genet. 213, pp.291-296, 1988.						

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